

Access DB# 95138**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: Truong, JVC Examiner #: 69332 Date: 3/28/03
Art Unit: 1711 Phone Number 308-2437 Serial Number: 09/994998
Mail Box and Bldg/Room Location: 3/AD29 Results Format Preferred (circle): PAPER DISK E-MAIL

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

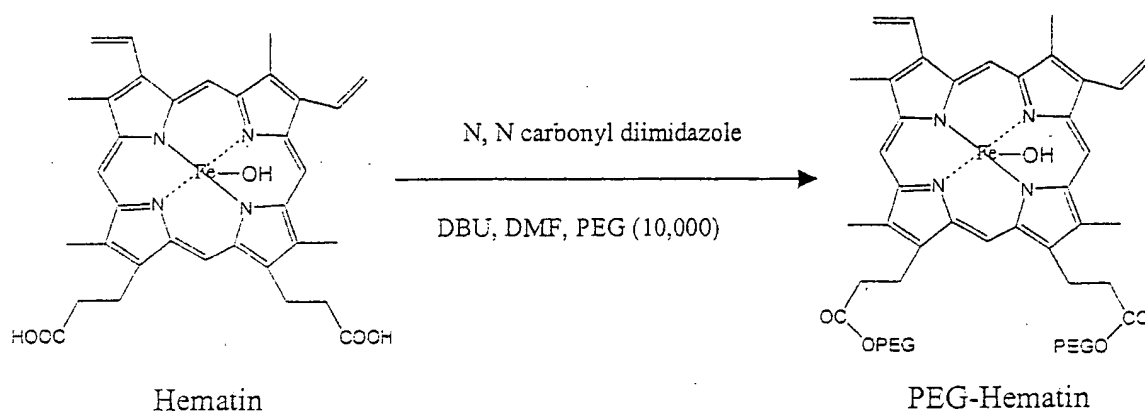
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Per - Hematin or Hematine in Fig. 1. E. Chunks.

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	Type of Search	Vendors and cost where applicable
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Figure 1



CLAIMS

What is claimed is:

1. A compound comprising hematin derivatized with one or more non-proteinaceous amphipathic groups.
- 5 2. The compound of Claim 1, wherein said compound is soluble in solutions ranging from pH 1 to pH 12.
3. The compound of Claim 1, wherein the amphipathic group is a substituted or unsubstituted polyalkylene glycol.
4. The compound of Claim 3, wherein the polyalkylene glycol is substituted or
10 unsubstituted polyethylene glycol.
5. The compound of Claim 4, wherein polyethylene glycol groups have a molecular weight of about 400 to about 100,000.
6. A method of polymerizing an aromatic monomer, comprising combining an aromatic monomer with a hematin catalyst, wherein the hematin catalyst has
15 been derivatized with one or more non-proteinaceous amphipathic groups.
7. The method of Claim 6, further comprising combining a peroxide initiator with the aromatic monomer and the derivatized hematin.
8. The method of Claim 7, further comprising a template, wherein the aromatic monomer aligns along said template and polymerizes to form a complex
20 comprising the polymerized aromatic monomer and the template.

09/994998



11/27/01

Class	Subclass	ISSUE CLASSIFICATION

PATENT NUMBER

U.S. UTILITY Patent Application

JC/900

MT	O.I.P.E.	PATENT DATE
SCANNED <i>NS2.0.4W</i>		

APPLICATION NO. 09/994998	CONT/PRIOR D	CLASS 514 <i>528</i>	SUBCLASS <i>422</i>	ART UNIT 4614 <i>1711</i> <i>43</i>	EXAMINER <i>T. J. ...</i>
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APPLICANTS

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Ferdinando Bruno
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TITLE

Polymerization of aromatic monomers using derivatives of hematin

PTO-2040
12/99

ISSUING CLASSIFICATION

ORIGINAL		CROSS REFERENCE(S)							
CLASS	SUBCLASS	CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)						
INTERNATIONAL CLASSIFICATION									

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<input type="checkbox"/> TERMINAL DISCLAIMER	DRAWINGS			CLAIMS ALLOWED	
	Sheets Drwg.	Figs. Drwg.	Print Fig.	Total Claims	Print Claim for O.G.
<input type="checkbox"/> The term of this patent subsequent to _____ (date) has been disclaimed.	_____ (Assistant Examiner) (Date)			NOTICE OF ALLOWANCE MAILED	
<input type="checkbox"/> The term of this patent shall not extend beyond the expiration date of U.S Patent. No. _____				ISSUE FEE	